

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 1.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-025277**Date Inspected:** 21-Jul-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1730**Contractor:** American Bridge/Fluor Enterprises, a JV**Location:** Jobsite**CWI Name:** William Sherwood**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** SAS OBG**Summary of Items Observed:**

Quality Assurance Inspector (QA) Douglas Frey was at the American Bridge/Fluor (ABF) job site at Yerba Buena Island in California between the times noted above in order to monitor Quality Control functions and the in process work being performed by ABF personnel. The following items were observed:

1. 11E 12E Side Plate C (Interior)
2. 11E 12E Edge Plate B (Interior)
3. 11E 12E Edge Plate E (Interior)
4. 10E 11E Edge Plate C1/C2/E1/E2 (Interior)

1. 11E 12E Side Plate C (Interior)

The QA Inspector randomly observed ABF welding operators Wai Kitlai ID#2953 performing Flux Core Arc Welding w/gas (FCAW-G) operations in the 3G vertical position on side plate C at 11E 12E on the inside of the OBG. The QA Inspector observed the QC Inspector John Pagliero as being present in order to monitor the progress and ensure the welding parameters were in compliance pertaining to ABF-WPS-D15-3042B-1. The Work on C was completed on this date and the QA Inspector noted that the work appears to be in general conformance with the contract documents.

2. 11E 12E Edge Plate B (Interior)

The QA Inspector observed ABF welder Fred Kaddu ID#2188 grinding and blending the backgouge of the weld

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located at 11E 12E edge plate B inside of the OBG. Upon completion the QA Inspector observed the QC Inspector identified as John Pagliero perform Magnetic Particle Testing on the site and the QA Inspector noted that the test found the backgouge to be free of indications. The QA Inspector observed the ABF welder perform Shielded Metal Arc Welding (SMAW) in the 3G vertical position with the QC Inspector being present in order to monitor the progress and ensure the welding parameters were in compliance pertaining to ABF-WPS-D15-1040A Rev. 1. The QA Inspector noted that the work is in progress and appeared to be in general conformance with the contract documents.

3. 11E 12E Edge Plate E (Interior)

The QA Inspector randomly observed ABF welding operators James Zhen ID#6001 and Jin Pei Wang ID#7299 performing Flux Core Arc Welding w/gas (FCAW-G) operations in the 3G vertical position on side plate E on the inside of the OBG. The QA Inspector observed the QC Inspector John Pagliero as being present in order to monitor the progress and ensure the welding parameters were in compliance pertaining to ABF-WPS-D15-3042B-1. The QA Inspector noted that the work is appears to be in general conformance with the contract documents.

4. 10E 11E Edge Plate C1/C2/E1/E2 (Interior)

The QA Inspector performed a Magnetic Particle Test (MT) on Edge Plates C1/C2/E1/E2 at 10E 11E on the interior of the OBG. The QA Inspector tested 10% of the weld to verify the weld and testing by QC meet the requirements of the contract documents. The QA Inspector noted that the work appeared to be free of defects and was found to be acceptable and in general conformance with the contract documents. Upon completion of the MT, the QA Inspector performed Ultrasonic Testing utilizing a G.E./Krautkramer USN 60. The QA Inspector also utilized the UT Procedure identified as SE-UT-D1.5-CT-100 Rev.4 during the examination. Upon completion of the testing, it was noted by the QA Inspector that no indications were present and the work was found to be acceptable.

Summary of Conversations:

At the beginning the shift the QA Inspector met with QC Inspector William Sherwood and discussed the welders assignments and locations for the shift to include pending issues, ongoing work and required testing.



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Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Nina Choy 510-385-5910, who represents the Office of Structural Materials for your project.

Inspected By:	Frey,Doug	Quality Assurance Inspector
Reviewed By:	Levell,Bill	QA Reviewer
